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UNITED STATES DEPARTMENT OF LABOR MINE SAFETY AND HEALTH ADMINISTRATION

District 9

REPORT OF INVESTIGATION (Underground Coal Mine)

NONINJURY COAL MINE OUTBURST ACCIDENT

Dutch Creek No. 1 Mine (ID No. 05-00301)
Mid-Continent Resources, Inc.
Redstone, Pitkin County, Colorado

February 22, 1983

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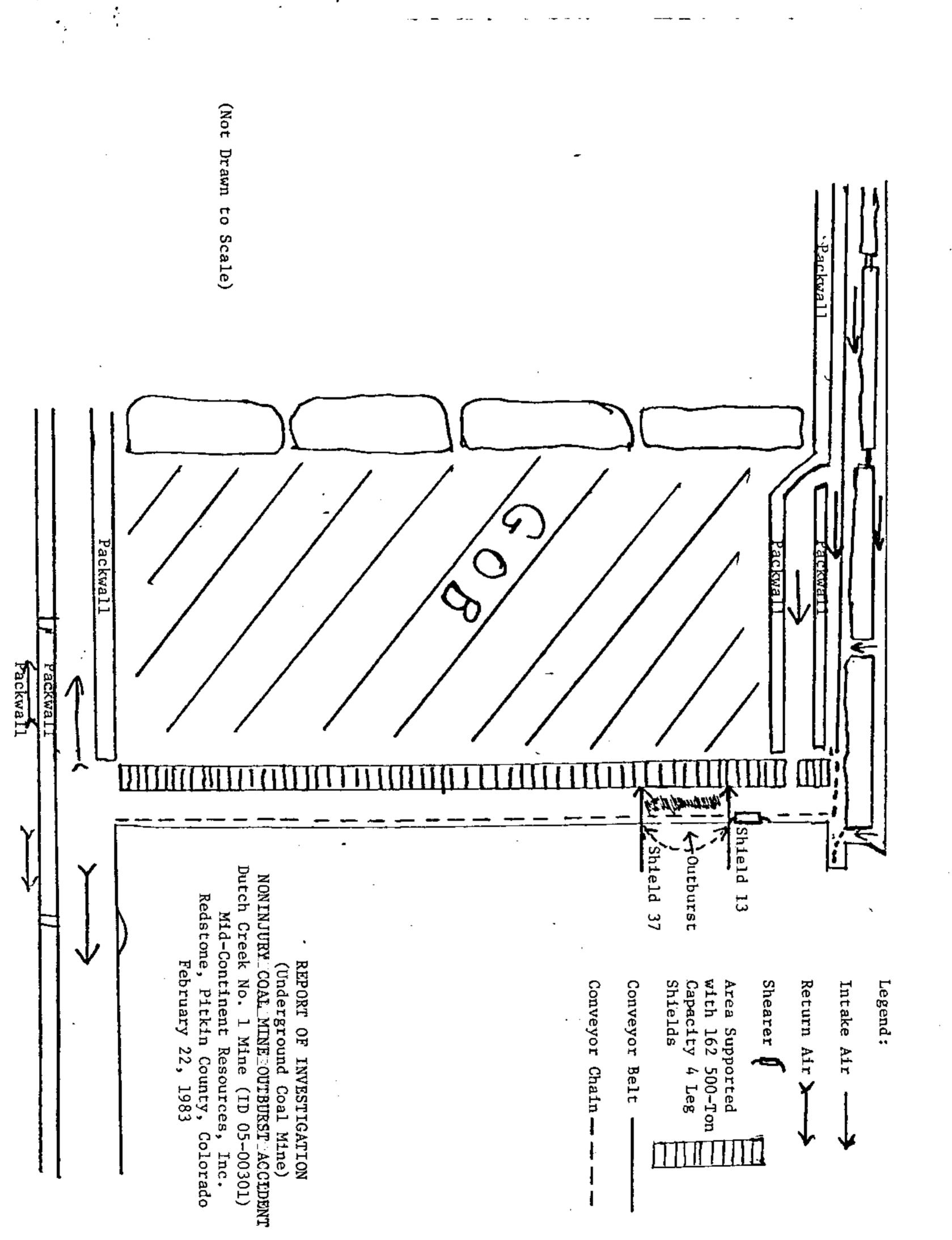
Louis Villegos Coal Mine Inspector

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Abstract of Investigation

U.S. Department of Labor Mine Safety and Health Administration



Authority --

This report is based on an investigation unde pursuant to the Federal Mine Safety and Health Act of 1977, Public law 91-173, as unerided by Public Law 95-164.

SECTION A SIDENTIFICATION DATA	SECTIONE	FORMATION
Noninjury Coal Mine 1. Titla of investigation: Outburst Accident	9. Daily production:	1,500 Tons
2. Date MESA investigation started: 02/22/83	10. Surface employment:	4
3. Report release date: 04/10/83	11. Underground employment: _	92
4. Mine: Dutch Creek No. 1	12. Name of coalbed:	Coal Basin
5. Mine ID number: 05-00301-	13. Thickness of coalbed:	84 Inches
6. Company Mid-Continent Resources, Inc.	8=01016=2550	
7. Town, County, State: Redstone, Pitkin Co., CO	FIEOUEIG	
8. Author(s): Louis Villegos	14. Industry:	11.08
SEGIONO-OHGINATING DEFCE	15. This operation:	36.45
18 Mine Safety and Health Administration	16. Training program approved:	Yes
Coal Mine Health and Safety District No.: 9 Address: Drawer J, Price, UT 84501	i7. Mine Profile Rating:	

SECTION BEMINEIR	FORM.	
9. Daily production:	1,500	Tons
18. Surface employment:	4	
11. Underground employment: _	92	
12. Name of coalbed:	Coal	Basin "B"
13. Thickness of coalbed:	84	Inches
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han and the same of the same and the same an	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
14. Industry:	11.08
15. This operation:	36.45
16. Training program approved:	Yes
i7. Mine Profile Rating;	

SECTIONS On Tuesday, February 22, 1983, about 11:15 a.m., an outburst of coal occurred in the face of the 102 longwall section. The accident occurred due to the overburden which is in excess of 2,500 feet. No injuries or property damage were sustained.

mpany officials: Name	Address
President John A. Reeve	P.O. Box 980, Carbondale, CO 81623
0. Superintendent: Allyn Davis	P.O. Box 980, Carbondale, CO 81623
1. Safety Director: Donald Ford	P.O. Box 980, Carbondale, CO 81623
2. Principle officer - H&S: Donald For	P.O. Box 980, Carbondale, CO 81623
3. Labor Organization: None	·

Commentary

On Tuesday, February 22, 1982, the day shift longwall mining crew, under the supervision of Murray Aitken, section foreman, entered the mine by hoist mantrip and traveled by foot the last 1,180 feet to the 102 advancing longwall section, arriving about 7:25 a.m. Aitken conducted an examination of the section prior to energizing any power to the equipment, then assigned duties and work location to his crew. Mining of coal and other activities commenced and continued without anything unusual happening until the accident occurred about 11:15 a.m. Ken Martin and Mike Jerome, head and tailgate shear operators respectively, were cutting the face, on the second pass, toward the headgate when the coal outburst occurred. The tailgate cutting shear wheel of the Eickoff 300 LH shear was located at No. 13 shield at the time. All the miners in the longwall face areas immediately ran down to the headgate and a head count made which showed everyone was accounted for, with injury to no one. Charles Loveland, who was at the headgate control station, stated that all electrical power to the longwall was deenergized at the transformer instantly by methane monitors, with sensors located at the last tailgate shield and in the 101 bleeder entry. The outburst pushed coal outby the face from 6 to 9 feet for a distance of 122 feet in length. About 60 feet of the coal was piled up 3 to 4 feet in height, and to the face conveyor side board. Most of the outburst material was in large lumps. There was one hole in the coal face against the roof line, immediately up hill from the shear machine, which measured 1 foot in height, 12 feet in width, and 6 to 10 feet in depth. The occurrence was reported by phone to MSHA inspector Louis Villegos at the mine surface at 11:20 a.m. on February 22, 1983, and an investigation was started immediately.

Discussion and Evaluation

The investigation revealed the following factors relevant to the occurrence of the outburst of coal:

- 1. The coal outburst caused the withdrawal of miners and disrupted mining activity for more than an hour.
 - 2. The coal outburst affected ventilation.
- 3. High concentrations of methane gas were liberated during and after the outburst. The highest reading observed at the methane monitor mounted on the headgate control station was 6.2%.
- 4. The force of the outburst pushed coal outby the face from 6 to 9 feet, 4 inches to 4 feet in height, and for a distance of 122 feet between No. 13 shield and No. 37 shield.
- 5. The overburden in the 102 longwall section is in excess of 2,500 feet. Due to this natural condition, extreme pressure is exerted on the coalbed.

- 6. The longwall face being mined was approximately 800 feet long, using the advance method of mining utilizing construction of packwalls to maintain ventilation and haulage entries.
- 7. The longwall face had been volley fired on the immediate prior "graveyard" shift.
- 8. Methane monitors had deanergized the electrical power to the longwall section.
- 9. The 102 longwall section has been advanced approximately 400 feet from its start line.

Findings of Fact

Evidence and findings of the investigation indicated there were no violations of Title 30 CFR which contributed to the occurrence of the accident. However, a 107(a) order of withdrawal was issued because of the presence of methane gas which was in excess of 1.5%.

Conclusion

The accident occurred because of the overburden which is in excess of 2,500 feet in thickness and exerts extreme pressure on the coalbed.

Respectfully submitted,

Louis Villegos

Coal Mine Inspector

Approved:

Jensen L. Bishop

Subdistrict Manager

APPENDIX

The investigation was conducted by the Mine Safety and Health Administration and those persons present during the investigation were:

Mid-Continent Resources, Inc. Officials

Murray Aitken Allyn Davis M. J. Turnipseed

John Reeves, Jr.

Foreman Superintendent

Vice President Mine Operations

Longwall Manager

Mine Safety and Health Administration

Louis Villegos

Coal Mine Inspector